



# United States Environmental Protection Agency

## Region 9 Laboratory

1337 S. 46th Street Building 201

Richmond, CA 94804

**Subject:** Analytical Testing Results - Project R04S41  
SDG: 04057E

**From:** Brenda Bettencourt, Director  
EPA Region 9 Laboratory  
PMD-2

**To:** Chris Lichens  
Site Cleanup Section 4  
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical Feb 2004 Oversight Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

### **Analyses included in this report:**

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1,4-Dioxane



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**Region 9 Laboratory**

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Phone:(510) 412-2300 Fax:(510) 412-2302

**Site Cleanup Section 4**

**Project:** Omega Chemical Feb 2004 Oversight Sampling

**75 Hawthorne Street  
San Francisco CA, 94105**

**Project Number:** R04S41  
**Project Manager:** Chris Lichens

**SDG:**04057E  
**Reported:**04/12/04 16:33

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC1-OW1-W-0-3	0402048-01	Water	02/24/04 13:55	02/26/04 14:00
OC1-OW2-W-0-1	0402048-02	Water	02/24/04 13:00	02/26/04 14:00
OC1-OW2-W-5-2	0402048-03	Water	02/24/04 13:00	02/26/04 14:00
OC1-OW3-W-0-4	0402048-04	Water	02/25/04 08:50	02/26/04 14:00

Because of high levels of 1,4-dioxane, sample OC1-OW1-W-0-3 was diluted and reanalyzed. The dilution masked the surrogate 1,4-dioxane. Therefore surrogate recovery for this sample is reported from the undiluted analysis.



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**Semivolatile Organic Compounds by EPA Method 8270C  
EPA Region 9 Laboratory**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>0402048-01 : OC1-OW1-W-0-3 Water Sampled: 02/24/04 13:55 Received: 02/26/04 14:00</b>								
Semivolatile Organic Compounds by EPA Method 8270C								
Surrogate: 1,4-Dioxane-d8	0.759	Q7	16 %		50-130	B4C0002	03/01/04	03/02/04
<b>0402048-01RE1 : OC1-OW1-W-0-3 Water Sampled: 02/24/04 13:55 Received: 02/26/04 14:00</b>								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	26000		1000	ug/L	B4C0002	03/01/04	03/03/04	8270C/SOP315
<b>0402048-02 : OC1-OW2-W-0-1 Water Sampled: 02/24/04 13:00 Received: 02/26/04 14:00</b>								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	2.7		1.0	ug/L	B4C0002	03/01/04	03/02/04	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	3.26		68 %		50-130	"	"	"
<b>0402048-03 : OC1-OW2-W-5-2 Water Sampled: 02/24/04 13:00 Received: 02/26/04 14:00</b>								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	3.6		0.9	ug/L	B4C0002	03/01/04	03/03/04	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	3.29		69 %		50-130	"	"	"
<b>0402048-04 : OC1-OW3-W-0-4 Water Sampled: 02/25/04 08:50 Received: 02/26/04 14:00</b>								
Semivolatile Organic Compounds by EPA Method 8270C								
1,4-Dioxane	ND	U	1.0	ug/L	B4C0002	03/01/04	03/03/04	8270C/SOP315
Surrogate: 1,4-Dioxane-d8	3.52		74 %		50-130	"	"	"



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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**EPA Region 9 Laboratory**

**Batch B4C0002 - 3520B CLLE - 1,4-Dioxane**

Blank (B4C0002-BLK1)

Prepared: 03/01/04 Analyzed: 03/02/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	ND	U	1.0	ug/L						
Surrogate: 1,4-Dioxane-d8	4.33			"	5.02		86	50-130		

LCS (B4C0002-BS1)

Prepared: 03/01/04 Analyzed: 03/02/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	8.9		1.0	ug/L	9.90		90	50-130		
Surrogate: 1,4-Dioxane-d8	5.08			"	4.95		103	50-130		

Matrix Spike (B4C0002-MS1)

Source: 0402048-03

Prepared: 03/01/04 Analyzed: 03/03/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	18		2.0	ug/L	20.1	3.6	72	50-130		
Surrogate: 1,4-Dioxane-d8	8.82			"	10.0		88	50-130		

Matrix Spike Dup (B4C0002-MSD1)

Source: 0402048-03

Prepared: 03/01/04 Analyzed: 03/03/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	16		1.8	ug/L	18.4	3.6	67	50-130	12	30
Surrogate: 1,4-Dioxane-d8	6.05			"	9.20		66	50-130		



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**Qualifiers and Comments**

Q7 Surrogate spike recoveries for this sample were outside control limits.  
U Not Detected  
NR Not Reported